## SIEMENS

## Data sheet

## 3RS7000-2AE00



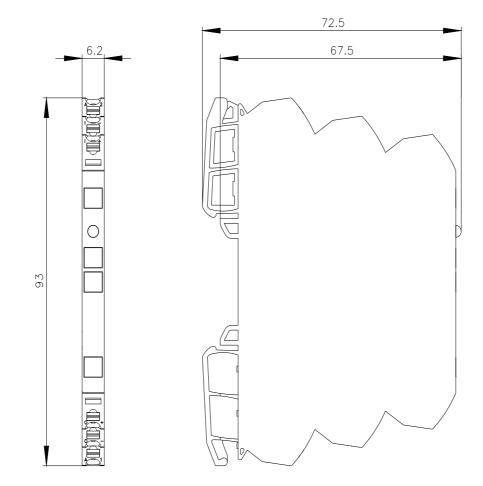
Separation amplifier 24 V AC/DC, 3-way separation input: 0-10 V output: 0-10 V Spring-type terminal (push-in)

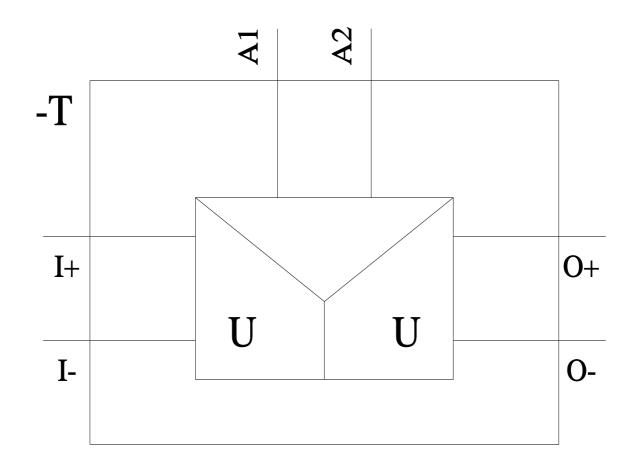
product brand name	SIRIUS
product category	Signal converter
product designation	Single-range converters
design of the product	active
product type designation	3RS70
General technical data	
display version LED	Yes
number of channels	1
consumed active power	0.29 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	50 V
surge voltage resistance rated value	2 500 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
reference code according to IEC 81346-2	Т
Substance Prohibitance (Date)	03/25/2015
Supply voltage	
supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
supply voltage at DC rated value	24 V
supply voltage frequency rated value	60 50 Hz
operating range factor supply voltage rated value	
• at AC at 50 Hz	0.8 1.1
• at AC at 60 Hz	0.8 1.1
• at DC	0.8 1.1
Precision	
relative metering precision	0.1 %
relative linearity deviation	0.05 %
temperature drift per °C	0.015 %/°C
voltage ripple maximum	20 mV
limit frequency	30 Hz
settling time for 1 % deviation	17 ms
rise time	6 ms
Main circuit	
type of voltage	AC/DC
Inputs/ Outputs	
input voltage	30 V
property of the output short-circuit proof	Yes
type of signal at input	0 10 V

type of signal at output	0 10 V
type of signal at output input impedance of voltage input minimum	330 kΩ
output load	550 K22
at voltage output minimum	2 kΩ
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	Environment B
ENC immunity according to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
due to burst according to IEC 61000-4-4	1 kV 5/50 ns
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
design of the electrical isolation	3 paths
galvanic isolation	
<ul> <li>between input and output</li> </ul>	Yes
between the outputs	No
<ul> <li>between the inputs</li> </ul>	No
<ul> <li>between the voltage supply and other circuits</li> </ul>	Yes
Connections/ Terminals	
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	
• solid	1x (0.25 2.5 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.25 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	1x (0.25 2.5 mm²)
<ul> <li>for AWG cables solid</li> </ul>	1 x (20 14)
for AWG cables stranded	1x (20 14)
connectable conductor cross-section	
• solid	0.25 2.5 mm <sup>2</sup>
• finely stranded with core end processing	0.25 1.5 mm <sup>2</sup>
finely stranded without core end processing	0.25 2.5 mm²
AWG number as coded connectable conductor cross section	
• solid	20 14
• stranded	20 14
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	93 mm
width	6.2 mm
depth	72.5 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
<ul> <li>for live parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm

Ambient conditions					
installation altitude at h	neight above sea level ma	ximum	2 000 m		
ambient temperature					
<ul> <li>during operation</li> </ul>	ı		-25 +60 °C		
<ul> <li>during storage</li> </ul>			-40 +80 °C		
<ul> <li>during transport</li> </ul>			-40 +80 °C		
relative humidity during			10 95 %		
Approvals Certificates	6 1		10 95 78		
General Product App					
(SP)	UK CA	CE EG-Konf.	Confirmation		EHC
Test Certificates	Marine / Shipping	other			
<u>Type Test Certific-</u> ates/Test Report		<u>Confirmatic</u>	חנ		
Further information					
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Characteristic: Derat	ing				

https://support.industry.siemens.com/cs/ww/en/ps/3RS7000-2AE00/manual





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12/23/2020 🖸